

## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

### **LISTING OF CLAIMS**

1-12 (cancelled).

13. (New) A power supply apparatus comprising:
- a charge pump DC/DC converter having a capacitor for charging and discharging; and
  - a series regulator,
- wherein the charge pump DC/DC converter and the series regulator are operated depending on an operation command,
- wherein the series regulator comprises:
- an input terminal into which an input voltage is inputted;
  - an output terminal from which an output voltage is outputted;
  - a transistor connected between the input and output terminals;
  - an error amplifier in which an output signal from the error amplifier is inputted to a gate of the transistor;
- a first resistor, a second resistor and a switching element connected in series between the output terminal and a predetermined potential terminal,
- wherein the error amplifier has input terminals to which a reference potential and a potential at a node between the first and second resistors are inputted, and
- wherein the switching element is turned on or turned off based on the operation command.

14. (New) A power supply apparatus comprising:

a DC/DC converter; and  
a series regulator,  
wherein the DC/DC converter and the series regulator are operated depending on an operation command, and  
wherein the series regulator comprises:  
an input terminal into which an input voltage is inputted;  
an output terminal from which an output voltage is outputted;  
a transistor connected between the input and output terminals;  
an error amplifier in which an output signal from the error amplifier is inputted to a gate of the transistor;  
a first resistor, a second resistor and a switching element connected in series between the output terminal and a predetermined potential terminal,  
wherein the error amplifier has input terminals to which a reference potential and a potential at a node between the first and second resistors are inputted, and  
wherein the switching element is turned on or turned off based on the operation command.

15. (New) A power supply apparatus comprising:  
a switching regulator; and  
a series regulator,  
wherein the switching regulator and the series regulator are operated depending on an operation command, and  
wherein the series regulator comprises:  
an input terminal into which an input voltage is inputted;  
an output terminal from which an output voltage is outputted;  
a transistor connected between the input and output terminals;

an error amplifier in which an output signal from the error amplifier is inputted to a gate of the transistor;

a first resistor, a second resistor and a switching element connected in series between the output terminal and a predetermined potential terminal,

wherein the error amplifier has input terminals to which a reference potential and a potential at a node between the first and second resistors are inputted, and wherein the switching element is turned on or turned off based on the operation command.